

WHAT IS CLAIMED IS:

1. A structure for installing a rear cushion in a rear suspension, comprising:

a rear swing arm, a front end of which is supported so as to be freely rock-able on a vehicle body side through a pivot shaft, and a rear wheel of which is supported at a rear end;

a cushion bracket provided on a upper portion of said rear swing arm on a front end side;

a link for coupling a lower front end portion of said rear swing arm to the vehicle body side; and

an upper portion of said rear cushion supported by said cushion bracket, and a lower portion of said rear cushion supported by said link,

wherein said cushion bracket extends forwardly of and rearwardly of the upper portion of said rear cushion, both a forward end portion and a rearward end portion of the cushion bracket are coupled to said rear swing arm, and wherein the upper portion of said rear cushion is supported by an intermediate portion of the cushion bracket in a back-and-forth direction.

2. The structure for installing a rear cushion according to claim 1, the rear swing arm including a pair of left and right arm portions, the cushion bracket including a pair of left and right cushion brackets, front end portions of the left and the right cushion brackets being coupled to a first cross member,

rear end portions of the left and the right cushion brackets being coupled to a second cross member,

the first and the second cross members being provided at an interval in the back-and-forth direction between upper portions of said left and right arm portions on the front end sides.

3. The structure for installing a rear cushion according to claim 1, the rear swing arm being a cantilever swing arm including a pair of left and right arm portions, the cushion bracket including a pair of left and right cushion brackets, front end portions of the left and the right cushion brackets being coupled to a first cross member which is laid over the left and right arm members.,

4. The structure for installing a rear cushion according to claim 2, wherein the upper portion of said rear cushion is supported between said left and right cushion brackets, the rear cushion having a subsidiary cylinder arranged in space enclosed by said left and right cushion brackets on lateral sides thereof, and enclosed by said first and second cross members forward and rearward thereof.

5. The structure for installing a rear cushion according to claim 1, wherein the link includes a triangular shaped link member and a linear link arm.

6. The structure for installing a rear cushion according to claim 5, wherein the linear link arm includes left and right link arms connected to the left and right sides of the triangular shaped link member.

7. A hydraulic shock absorber in a rear cushion, comprising:  
a cylinder for generating a damping force by sliding of a built-in piston,

a subsidiary cylinder having a gas chamber disposed non-coaxially to said cylinder; and

a crooked oil path connecting said subsidiary cylinder and said cylinder,

wherein a diameter of said oil path is larger than a distance between a tip portion of an inner wall of said cylinder and said piston when said piston reaches a maximum compression stroke.

8. The hydraulic shock absorber in a rear cushion according to claim 7, wherein the diameter of said oil path is substantially equal to an inner diameter of said cylinder.

9. The hydraulic shock absorber in a rear cushion according to claim 7, wherein said oil path is provided with a bulkhead for partitioning the gas chamber off, the bulkhead being provided with drawing means.

10. The hydraulic shock absorber according in a rear cushion to claim 7, wherein an axis of said cylinder and an axis of said subsidiary cylinder are parallel to each other.

11. A structure for installing a rear cushion in a rear suspension, comprising:

a rear swing arm, a front end of which is supported so as to be freely rock-able on a vehicle body side through a pivot shaft, and a rear wheel of which is supported at a rear end;

a cushion bracket provided on an upper portion of said rear swing arm on a front end side;

a link for coupling a lower front end portion of said rear swing arm to the vehicle body side; and

an upper portion of said rear cushion supported by said cushion bracket, and a lower portion of said rear cushion supported by said link, and

when the structure is observed from a side, said cushion bracket extends forwardly of and rearwardly of the upper portion of said rear cushion, both a forward end portion and a rearward end portion of the cushion bracket are coupled to said rear swing arm, and the upper portion of said rear cushion is supported by an intermediate portion of the cushion bracket in a back-and-forth direction,

wherein the rear cushion includes a cushion spring.

12. The structure for installing a rear cushion according to claim 11, the rear swing arm including a pair of left and right arm portions, the cushion bracket including a pair of left and right cushion brackets, front end portions of the left and the right cushion brackets being coupled to a first cross member,

rear end portions of the left and the right cushion brackets being coupled to a second cross member,

the first and the second cross members being provided at an interval in the back-and-forth direction between upper portions of said left and right arm portions on the front end sides.

13. The structure for installing a rear cushion according to claim 12, wherein the upper portion of said rear cushion is supported between said left and right cushion brackets, the rear cushion having a subsidiary cylinder arranged in space enclosed by said left and right cushion brackets on lateral sides thereof, and

enclosed by said first and second cross members forward and rearward thereof.

14. The structure for installing a rear cushion according to claim 11, wherein the link includes a triangular shaped link member and a linear link arm.

15. The structure for installing a rear cushion according to claim 14, wherein the linear link arm includes left and right link arms connected to the left and right sides of the triangular shaped link member.

16. The structure for installing a rear cushion according to claim 13, wherein the subsidiary cylinder includes a gas chamber.

17. The structure for installing a rear cushion according to claim 13, wherein the subsidiary cylinder is arranged non-coaxially with the rear cushion.